NC/QC/YPD/2020-21/FT-C1 **Date: 01-02-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing and Installation of Water fountains in ward no. 10 Doddabommasandra.}
Ref.: Material testing/ QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Color Design India, New Delhi.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**276 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.93%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.01mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.56 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Date: 01-02-2021

NC/QC/YPD/2020-21/FT-PCC1

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing and Installation of Water fountains in ward no. 10 Doddabommasandra.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Color Design India, New Delhi.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	57.90	0 -20	30- 70
10mm	24.35	0 -5	10- 35
4.75mm	3.80	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.60	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.05	60-95	75-100	85-100	
01.18	69.70	30-70	55-90	75-100	
600.mic	37.20	15-34	35-59	60-79	
300.mic	14.85	5-20	8-30	12-40	
150.mic	7.35	0-10	0-10	0-10	

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NC/QC/YPD/2020-21/FT-CE1

Date: 03-02-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing and Installation of Water fountains in ward no. 10 Doddabommasandra.}
Ref.: Material testing/ QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Color Design India, New Delhi.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**169min**	Shall not be less than 30 min
2	Final setting time	**262 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.02 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.98 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.69 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/2020-21/FT-FA1 **Date: 03-02-2021**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing and Installation of Water fountains in ward no. 10 Doddabommasandra.}
Ref.: Material testing/ QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Color Design India, New Delhi.

TABLE - 1.1 : SIEVE ANALYSIS:

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.70**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**80.95**	60-95	75-100	85-100	
01.18	**68.20**	30-70	55-90	75-100	
600. mic	**53.10**	15.34	35-59	60-79	
300.mic	**16.65**	5-20	8-30	12-40	
150.mic	**7.30**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.92 %**	-----
2	Silt Content	----	**0.60 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/YPD/2020-21/FT-CA1

Date: 03-02-2021

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing and Installation of Water fountains in ward no. 10 Doddabommasandra.}
Ref.: Material testing/ QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Color Design India, New Delhi.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.60	85-100	90 - 100
10 mm	41.95	0 - 20	25 - 55
4.75 mm	3.40	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.96%	Not to exceed 25 %
2.	Crushing value	27.40%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD/2020-21/FT-CB1 **Date: 15-02-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing and Installation of Water fountains in ward no. 10 Doddabommasandra.}
Ref.: Material testing/ QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Color Design India, New Delhi.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-02-21	15-02-21	07	22500	310	13.78	**13.85**
	002	"	"	"	"	305	13.56	
	003	"	"	"	"	320	14.22	

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NC/QC/YPD/2020-21/FT-CB1A

Date: 08-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing and Installation of Water fountains in ward no. 10 Doddabommasandra.}
Ref.: Material testing/ QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Color Design India, New Delhi.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-02-21	08-03-21	28	22500	400	17.78	**18.07**
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	415	18.44	

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